

AMENDMENTS TO THE SPECIFICATION

In the sequence listing:

Please replace the Sequence Listing of record with the attached revised substitute Sequence Listing.

In the specification:

Please replace the paragraph on page 18, lines 3-4, of the specification of record with the following revised paragraph, marked-up to show changes made.

FIG. 1 shows a nucleotide sequence of ovine IP-10 and an amino acid sequence deduced from thereof [SEQ ID NO:1].

Please replace the paragraph on page 18, lines 5-11, of the specification of record with the following revised paragraph, marked-up to show changes made.

FIG. 2 illustrates the comparison of IP-10 amino acid sequences of ovine [SEQ ID NO:2], goat [SEQ ID NO:27], human [SEQ ID NO:28], and mouse [SEQ ID NO:29]. Four cysteine residues are conserved in these animals, but a glutamine-leucine-arginine (ELR) motif preceding the two cysteine residues from the N-terminal is not present. The homology of ovine IP-10 to human IP-10 is a higher than that of mouse IP-10. (see Table 1).

Please replace the table on page 69, lines 19-40, of the specification of record with the following revised table, marked-up to show changes made.

Table I

Name		Sequence		Length (bp)
oIP-10	Forward	5'-CACTCCTCAACTCTTCAGGC-3'	<u>SEQ ID NO:3</u>	262
	Reverse	5'-CCATTCCCTTTCATTGTGGC-3'	<u>SEQ ID NO:4</u>	
oCXCR3	Forward	5'-GCATCAGCTTCGATCGGTAC-3'	<u>SEQ ID NO:5</u>	283
	Reverse	5'-GATGCGGGCGTAGCAATAGG-3'	<u>SEQ ID NO:6</u>	
oIFN- τ	Forward	5'-CATCTTCCCCATGGCCTTCG-3'	<u>SEQ ID NO:7</u>	603
	Reverse	5'-TCATCTCAAAGTGAGTTCAG-3'	<u>SEQ ID NO:8</u>	
oIFN- γ	Forward	5'-CGATGAAATACACAAAGCTCC-3'	<u>SEQ ID NO:9</u>	504
	Reverse	5'-GATTACATTGATGCTCTCCG-3'	<u>SEQ ID NO:10</u>	
oG3PDH	Forward	5'-ATGGGGAAGGTGAAGGTCGG-3'	<u>SEQ ID NO:11</u>	901
	Reverse	5'-ATGTGGGCCATGAGGTCCAC-3'	<u>SEQ ID NO:12</u>	
	Forward	5'-ATGGGGAAGGTGAAGGTCGG-3'	<u>SEQ ID NO:13</u>	149
	Reverse	5'-ATGTGGGCCATGAGGTCCAC-3'	<u>SEQ ID NO:14</u>	

Please replace the table on page 87, lines 14-33, of the specification of record with the following revised table, marked-up to show changes made.

Table III

Name	Sequence of forward and reverse prime	Length (bp)
CXCR3	5'-GCATCAGCTTCGATCGGTAC-3' 5'-GATGCGGGCGTAGCAATAGG-3'	<u>SEQ ID NO:5</u> <u>SEQ ID NO:6</u>
XCR1	5'-ATGGAGCCCTCAGACATCCC-3' 5'-GAGGATCTCCACAGTAGCAGA-3'	<u>SEQ ID NO:15</u> <u>SEQ ID NO:16</u>
Integrin α 5	5'-TGCTGTGAACCAGAGTCGTC-3' 5'-ATCCACTGCACAGCTGTGGC-3'	<u>SEQ ID NO:17</u> <u>SEQ ID NO:18</u>
Integrin α V	5'-GAAGCAGGAAAGAGAGCCTG-3' 5'-CTATATCCGTGGCTCCTTTC-3'	<u>SEQ ID NO:19</u> <u>SEQ ID NO:20</u>
Integrin β 1	5'-CTCAAATCCAGCCACAGCAG-3' 5'-CCAGCGAAGTGAAACACAGC-3'	<u>SEQ ID NO:21</u> <u>SEQ ID NO:22</u>
Integrin β 3	5'-AGATTGGAGACACGGTGAGC-3' 5'-GTACTTGAAAGTGATCTTGC-3'	<u>SEQ ID NO:23</u> <u>SEQ ID NO:24</u>
Integrin β 5	5'-GTCTGAAGATTGGGGACAGC-3' 5'-GGTACACGCTCTGGTTCTCC-3'	<u>SEQ ID NO:25</u> <u>SEQ ID NO:26</u>
G3PDH	5'-ATGGGGAAGGTGAAGGTCGG-3' 5'-ATCATATTGGAACATGTAAA-3'	<u>SEQ ID NO:11</u> <u>SEQ ID NO:12</u>

Please replace the paragraph on page 90, lines 15 to page 91, line 4, of the specification of record with the following revised paragraph, marked-up to show changes made.

Twenty four-well plates were coated with type I collagen (Nitta gelatin) or fibronectin at a concentration of 10 μ g/mL at room temperature for 2 hours, or plated with caprine epithelial cells. After washing with PBS three times, the plates were blocked with 1% BSA at room temperature for 30 min. HTS-1 or primary trophoblast cells were labeled with the intracellular fluorescent dye, 4 μ M calsein-AM (Molecular Probes Inc., Eugene, OR) at 37°C for 30 min. After washing with PBS three times, the cells were incubated with the indicated rclP-10 at 37°C

for 1 hour, and were then added to each well. The plates were incubated at 37°C for 1 hour, and then washed with PBS three times to remove unbound cells. The remaining cells were treated with PBS containing 1% Triton X-100 and 10% ethanol. Fluorescence of cells was measured using fluorescence reader (excitation filter 485 nm and emission filter 535 nm) (ARVOTM SX 1420 Multilabel Counter, PerkinElmer Life Sciences Inc., Boston, MA). For the blocking experiments, rclP-10 protein was preincubated with 30 µg/mL of anti-IP-10 antibody or control rabbit IgG (Sigma) at 37°C for 1 hour. To investigate the involvement of IP-10 on cell adhesion to fibronectin, the Gly-Arg-Gly-Asp-Ser-Pro-Lys [SEQ ID NO:30] (GRGDSPK, Sigma) synthetic peptide at a concentration of 50 mM, its control, Arg-Gly-Glu-Ser [SEQ ID NO:31] (RGES, Sigma), or 5 mM EDTA was preincubated with cells and rclP-10 protein. Three independent ~~experiment~~ experiments were performed for each substrate and treatment.